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Research in the Sensorimotor Control and Learning Lab (SCiLL) uses state-of-the-art neuroimaging and non-invasive brain stimulation tools to understand the brain-behaviour relationship. Skilled motor actions can seem effortless.

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Sensorimotor control is the emergent property that describes the interaction between sensory-perceptual (e.g. visual, haptic) and coordinative (e.g. motor planning) processes required to...

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Currently, the field has primarily investigated motor deficits and motor learning with limited consideration of the role of sensory information, even though it is recognized that integration of sensory

information is a critical component of motor control (Borich et al., 2015; Bolognini et al., 2016). Furthermore, evidence has shown that sensory input is important for recovery after stroke.

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One of the more important facets of modern robotics is the notion of integrating the sensory perceptions experienced by an agent with its motoric capabilities—the actions it can perform—to...

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The major role of facial MI is in the initiation, control, and execution of orofacial movements, but it also may contribute to the learning of new motor skills and the adaptation to altered sensory inputs, such as might occur with changes to the dental occlusion through loss of teeth, dental restorations, orthodontically induced tooth movement, etc. (see Avivi-Arber et al. 2011). Through the direct and indirect descending projections of face-MI neurons to brainstem interneurons and to the ...

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Sensorimotor learning refers to improvement, through practice, in the performance of sensory-guided motor behavior. Here we will focus primarily on learning studies of the hand and arm in humans. Based on our own scientific leanings and limited space for this review, we chose to neglect learning with eyes and legs.

~~Human sensorimotor learning: adaptation, skill, and beyond ...~~

Integration of sensory and motor information is one-step, among others, that underlies the successful production of goal-directed hand movements necessary for interacting with our environment. Disruption of sensorimotor integration is prevalent in many neurologic disorders, including stroke. In most ...

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Sensory systems with similar coding principles may share similar mechanisms when it comes to learning and multimodal sensory integration. The MB is a center for integration of multimodal sensory information. Thus, our model can be extended to incorporate input from different sensory modalities.

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Theories of sensorimotor learning emphasize two kinds of learning-related changes in sensorimotor programs: A) chunking and increasing conscious control of the learned sensorimotor response. B) transferring the neural control of the learned sensorimotor response to lower levels of the CNS and increasing conscious control of it.

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A significant amount of research and development has gone into creating sophisticated prosthetic limbs and learning how to effectively control them. ... in prosthesis control and sensorimotor ...

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Frédéric Crevecoeur uses experimental and theoretical approaches to study how the nervous system processes sensory information and controls movements, which provides an open window into ...